

## ABSTRACT

a' A plasma display screen having a carrier plate, a transparent front plate, a rib structure, which divides the space between the carrier plate and the front plate into plasma cells which are filled with gas, and having one or more electrode arrays on the front plate or on the front plate and the carrier plate to generate corona discharges in the plasma cells, and having a phosphor layer and a reflection layer, which reflection layer comprises a non-metallic powder having a refractive index in the wavelength range from 147nm to 700nm of  $n=n_{\text{real}}+ik$ , where  $n>1.3$  and  $k<0.05$ , said powder having an average grain diameter of  $100\text{nm}<d<1000\text{nm}$ , is characterized by an improved luminance.

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